

APPLICATION NO.

10/810,957

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ATTORNEY DOCKET NO. CONFIRMATION NO.

884.B83US1 9826

EXAMINER

21186 7590 10/05/2005

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH
1600 TCF TOWER
121 SOUTH EIGHT STREET
MINNEAPOLIS, MN 55402

FILING DATE

03/26/2004

POTTER, ROY KARL

ART UNIT PAPER NUMBER

2822

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

FIRST NAMED INVENTOR

Donald T. Tran

	Application No.	Applicant(s)	
Office Action Summary	10/810,957	TRAN	
	Examiner	Art Unit	
	Roy K. Potter	2822	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with th	e correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).	
Status		·	
1) Responsive to communication(s) filed on 26 A	uaust 2005.		
·= · ·	action is non-final.	·	
3) Since this application is in condition for allowar		prosecution as to the merits is	
closed in accordance with the practice under E	•		
Disposition of Claims			
4)⊠ Claim(s) <u>1-28</u> is/are pending in the application.			
4a) Of the above claim(s) 22-28 is/are withdraw			
5)⊠ Claim(s) <u>8-21</u> is/are allowed.			
6)⊠ Claim(s) <u>1,2,4 and 7</u> is/are rejected.	·		
7) Claim(s) 3,5 and 6 is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	ır		
10) The drawing(s) filed on is/are: a) acc		e Examiner	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct			
11) The oath or declaration is objected to by the Ex	= : :		
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 119	(a)-(d) or (f)	
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under de didicio. 3 1 10	(4) (4) 5. (1).	
<u> </u>			
	Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the prior	• •		
application from the International Bureau	·	· · · · · · · · · · · · · · · · · · ·	
* See the attached detailed Office action for a list	` ' ' '	ived.	
	·		
Attachment(s)			
1) X Notice of References Cited (PTO-892)	4) Interview Summ		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mai	I Date al Patent Application (PTO-152)	
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	6) Other:	in a dent reprioration (1.10-102)	

Application/Control Number: 10/810,957

Art Unit: 2822

DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of claims 1 - 21 in the reply filed on 8/26/05 is acknowledged. The traversal is on the ground(s) that the Examiner will be looking for a base, a substrate and a die as recited in each of claims 1-28. This is not found persuasive because the method of claim 22 does not recite any electrical connection between the substrate and the base, as explained in the restriction requirement.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1 - 2, 4, 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Wood et al..

U.S. Patent Application 2005/0051889 A1 to Wood et al. discloses an integrated circuit packaging architecture. As shown in the embodiment of Figure 2, a base 110 includes power contacts 40. In paragraph [0010], line 2 Wood explains that power contacts can "be disposed above the surface of the card 10". A substrate 130 is mounted to the upper surface of the base by contacts 132 and 134. A die 140 is mounted on the substrate 130 and electrically coupled to the substrate. Voltage

Art Unit: 2822

regulators 39 and 35 regulate the voltage source. Contacts 125 are located on the bottom of the base 110. Figure 4 shows a heat spreader 220 coupled to the die.

Motherboard 120 is coupled to the base.

Allowable Subject Matter

Claims 3 and 5-6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 8 - 21 are allowed.

The prior art does not disclose or suggest the recited motherboard and daughterboard.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roy K. Potter whose telephone number is 571 272 1842. The examiner can normally be reached on M-F.

Page 4

Application/Control Number: 10/810,957

Art Unit: 2822

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Roy K Potter Primary Examiner Art Unit 2822